GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

Policy Development & Planning
Department of Transportation
St. John's, Newfoundland

DEPARTMENT OF TRANSPORTATION

RESEARCH REPORT NO. 40
RESULTS SEAT BELT SURVEY
AUGUST 12, 1988

Edwina Murray
Policy and Planning
August, 1988

SUMMARY

This Annual Seat Belt Survey, Research Report No. 40 conducted on August 12, 1988, eight months after the survey conducted by Transport Canada, showed a Provincial Average wearing rate of 76.5% up from 64.6% in the November 1987 Transport Canada survey. A total of 2442 vehicles was surveyed which is equal to the amount surveyed in June 1987.

The observation of child seats was omitted from this seat belt survey because the factors necessary for conducting an accurate child seat survey should include more detailed techniques showing correct use.

Below is a list of the wearing percentages and the number of vehicles surveyed for each area:

Urban - Village Mall - Hotel Newfoundland - Avalon Mall - Janeway Hospital - Bay Roberts - Confederation Building Exit - Clarenville - Grand Falls - Labrador City	76.1%	2386
Highway - Manuals Highway - Roaches Line - Harbour Arterial	78.8%	467
St. John's	72.2%	540
Bay Roberts	80.3%	396
Clarenville	66.9%	420
Grand Falls	82.5%	394
Corner Brook	91.2%	351
Labrador City	63.5%	285

For all sites where the number of surveyed vehicles exceeded 385, the wearing percentages have no more than a 5% error with at least a 95% confidence level.

SPECIFIC SURVEYS

1. Manuals Highway at Intersection of Route 60, E. Murray: The August 1988 survey, Table 4, indicates an increase in seat belt use to 69.6% from the June 1987 value of 65.0%.

2. Roaches Line Access to Trans Canada Highway, G. Jerrett: The August 1988 survey, Table 5, indicates a decrease in seat belt use to 83.9% from the 1987 value of 86.1%.

3. Harbour Arterial Ramp to Water Street, T. Beckett: Data shown on Table 6 reveal an increase in seat belt use to 84.0% from the 1987 value of 77.7%.

4. Village Mall, R. Neville: The August 1988 survey, Table 7, indicates a decrease in seat belt use to 69.0% from the June 1987 value of 82.0%.

5. Hotel Newfoundland, D. Shea: The August 1988 survey, Table 8, indicates a slight decrease in seat belt use to 75.8% from the 1987 value of 76.2%.

6. Avalon Mall, R. Neville: The 1988 survey, Table 9, indicates a decrease in seat belt use to 63.0% from the June 1987 value of 77.0%.

7. Janeway Hospital, R. Neville: The August survey, Table 10, indicates a value of 65.0%, equal to the June 1987 wearing rate.

8. Bay Roberts, G. Jerrett: The August survey, Table 11, indicates an increase in seat belt use to 80.3% from the June 1987 value of 72.1%.

9. Confederation Building Entrance, G. Tufts: The August survey, Table 12, shows a seat belt wearing rate of 85.0%, up from the June 1987 value of 55.0%.

10. Clarenville, W. Wiseman: The August survey, Table 13, shows an increase in seat belt use to 66.9% from the June 1987 rate of 63.6%.

11. Grand Falls, J. Martin & D. Higdon: The August survey, Table 14, indicates an increase in seat belt use to 82.5% from the June 1987 value of 73.1%.

12. Corner Brook, S. Jeddore: The August 1988 survey, Table 15, shows a seat belt wearing rate of 91.2%.

12. Labrador City, M.G. Elvin: The August survey, Table 16, indicates a significant increase in seat belt use to 63.5% from the June 1987 value of 33.0%.

STATISTICAL TABLES
August 12, 1988

Table 1
August 12, 1988

SEAT BELT SURVEY

AREA: **Provincial**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	109	144	253
25-44	773	502	1275
45-64	418	135	553
65+	86	16	102
TOTAL	1386	797	2183

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	31	28	79
25-44	294	144	438
45-64	125	16	141
65+	12	0	12
TOTAL	462	188	670

WEARING PERCENTAGE

	Male	Female	Total
16-24	77.9	83.7	76.2
25-44	72.4	77.7	74.4
45-64	77.0	89.4	79.7
65+	87.8	100.0	89.5
TOTAL	75.0	80.9	76.5

Table 2
August 12, 1988

SEAT BELT SURVEY

AREA: **Urban**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	83	114	197
25-44	621	427	1048
45-64	356	118	474
65+	80	16	96
TOTAL	1140	675	1815

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	45	25	70
25-44	252	122	374
45-64	103	14	117
65+	10	0	10
TOTAL	410	161	571

WEARING PERCENTAGE

	Male	Female	Total
16-24	64.8	82.0	73.8
25-44	71.1	77.8	73.7
45-64	77.6	89.4	80.2
65+	88.9	100.0	90.6
TOTAL	73.5	80.7	76.1

Table 3
August 12, 1988

SEAT BELT SURVEY

AREA: **Highway**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	26	30	56
25-44	152	75	227
45-64	62	17	79
65+	6	0	6
TOTAL	246	122	368

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	6	3	9
25-44	42	22	64
45-64	22	2	24
65+	2	0	2
TOTAL	72	27	99

WEARING PERCENTAGE

	Male	Female	Total
16-24	81.3	90.9	86.2
25-44	78.4	77.3	78.0
45-64	73.8	89.5	76.7
65+	75.0	-	75.0
TOTAL	77.4	81.9	78.8

Table 4
August 12, 1988

SEAT BELT SURVEY

AREA: **Manuels Highway at Intersection of Route 60**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	3	4	7
25-44	41	39	80
45-64	19	8	27
65+	3	0	3
TOTAL	66	51	117

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	1	0	1
25-44	24	12	36
45-64	11	1	12
65+	2	0	2
TOTAL	38	13	51

WEARING PERCENTAGE

	Male	Female	Total
16-24	75.0	100.0	87.5
25-44	63.1	76.5	69.0
45-64	63.3	88.9	69.2
65+	60.0	-	60.0
TOTAL	63.5	76.7	69.6

Table 5
August 12, 1988

SEAT BELT SURVEY

AREA: **Roaches Line at Interesection with TCH**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	10	10	20
25-44	48	8	56
45-64	37	4	41
65+	3	0	3
TOTAL	98	22	120

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	2	0	2
25-44	9	1	10
45-64	10	1	11
65+	0	0	0
TOTAL	21	2	23

WEARING PERCENTAGE

	Male	Female	Total
16-24	83.3	100.0	90.9
25-44	84.2	88.9	84.8
45-64	78.7	80.0	78.8
65+	100.0	-	100.0
TOTAL	82.4	91.7	83.9

Table 6
August 12, 1988

SEAT BELT SURVEY

AREA: **Harbour Arterial at Ramp to Water Street**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	13	16	29
25-44	63	28	91
45-64	6	5	11
65+	0	0	0
TOTAL	82	49	131

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	3	3	6
25-44	9	9	18
45-64	1	0	1
65+	0	0	0
TOTAL	13	12	25

WEARING PERCENTAGE

	Male	Female	Total
16-24	81.3	84.2	82.9
25-44	87.5	75.7	83.5
45-64	85.7	100.0	91.7
65+	-	-	-
TOTAL	86.3	80.3	84.0

Table 7
August 12, 1988

SEAT BELT SURVEY

AREA: **Village Mall**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	2	1	3
25-44	17	24	41
45-64	17	3	20
65+	5	0	5
TOTAL	41	28	69

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	2	1	3
25-44	8	6	14
45-64	13	1	14
65+	0	0	0
TOTAL	23	8	31

WEARING PERCENTAGE

	Male	Female	Total
16-24	50.0	50.0	50.0
25-44	68.0	80.0	74.5
45-64	56.7	75.0	58.8
65+	100.0	-	100.0
TOTAL	64.1	77.8	69.0

Table 8
August 12, 1988

SEAT BELT SURVEY

AREA: **Hotel Newfoundland**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	0	0	0
25-44	43	29	72
45-64	16	3	19
65+	0	0	0
TOTAL	59	32	91

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	0	0	0
25-44	17	8	25
45-64	4	0	4
65+	0	0	0
TOTAL	21	8	29

WEARING PERCENTAGE

	Male	Female	Total
16-24	-	-	-
25-44	71.6	78.4	74.2
45-64	80.0	100.0	82.6
65+	-	-	-
TOTAL	73.8	80.0	75.8

Table 9
August 12, 1988

SEAT BELT SURVEY

AREA: **Avalon Mall**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	0	0	0
25-44	20	16	36
45-64	15	7	22
65+	5	0	5
TOTAL	40	23	63

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	2	2	4
25-44	13	10	23
45-64	8	0	8
65+	2	0	2
TOTAL	25	12	37

WEARING PERCENTAGE

	Male	Female	Total
16-24	-	-	-
25-44	60.6	61.5	61.0
45-64	65.2	100.0	73.3
65+	71.4	-	71.4
TOTAL	61.5	65.7	63.0

Table 10
August 12, 1988

SEAT BELT SURVEY

AREA: **Janeway Hospital**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	1	2	3
25-44	21	25	46
45-64	8	2	10
65+	4	2	6
TOTAL	34	31	65

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	0	0	0
25-44	22	8	30
45-64	5	0	5
65+	0	0	0
TOTAL	27	8	35

WEARING PERCENTAGE

	Male	Female	Total
16-24	100.0	100.0	100.0
25-44	48.8	75.6	60.5
45-64	61.5	100.0	66.7
65+	100.0	100.0	100.0
TOTAL	55.7	79.5	65.0

Table 11
August 12, 1988

SEAT BELT SURVEY

AREA: **Bay Roberts**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	18	22	40
25-44	62	59	121
45-64	75	34	109
65+	37	11	48
TOTAL	192	126	318

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	8	0	8
25-44	25	12	37
45-64	23	4	27
65+	6	0	6
TOTAL	62	16	78

WEARING PERCENTAGE

	Male	Female	Total
16-24	69.2	100.0	83.3
25-44	71.3	83.1	76.6
45-64	76.5	89.5	80.1
65+	86.0	100.0	88.9
TOTAL	75.6	88.7	80.3

Table 12
August 12, 1988

SEAT BELT SURVEY

AREA: **Confederation Building West Entrance**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	1	4	5
25-44	38	23	61
45-64	24	10	34
65+	2	0	2
TOTAL	65	37	102

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	0	2	2
25-44	8	2	10
45-64	5	1	6
65+	0	0	0
TOTAL	13	5	18

WEARING PERCENTAGE

	Male	Female	Total
16-24	100.0	66.7	71.4
25-44	82.6	92.0	85.9
45-64	82.7	90.9	85.0
65+	100.0	-	100.0
TOTAL	83.3	88.1	85.0

Table 13
August 12, 1988

SEAT BELT SURVEY

AREA: **Clarenville**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	14	27	41
25-44	109	71	180
45-64	45	15	60
65+	0	0	0
TOTAL	168	113	281

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	16	9	25
25-44	64	34	98
45-64	13	3	16
65+	0	0	0
TOTAL	93	46	139

WEARING PERCENTAGE

	Male	Female	Total
16-24	46.7	75.0	62.1
25-44	63.0	67.6	64.7
45-64	77.6	83.3	78.9
65+	-	-	-
TOTAL	64.4	71.1	66.9

Table 14
August 12, 1988

SEAT BELT SURVEY

AREA: **Grand Falls**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	21	31	52
25-44	114	53	167
45-64	64	21	85
65+	20	1	21
TOTAL	219	106	325

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	8	8	16
25-44	26	11	37
45-64	11	3	14
65+	2	0	2
TOTAL	47	22	69

WEARING PERCENTAGE

	Male	Female	Total
16-24	72.4	79.5	76.5
25-44	81.4	82.8	81.9
45-64	85.3	87.5	85.9
65+	90.9	100.0	91.3
TOTAL	82.3	82.8	82.5

Table 15
August 12, 1988

SEAT BELT SURVEY

AREA: **Corner Brook**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	23	22	45
25-44	93	75	168
45-64	80	18	98
65+	7	2	9
TOTAL	203	117	320

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	6	1	7
25-44	8	3	11
45-64	11	2	13
65+	0	0	0
TOTAL	25	6	31

WEARING PERCENTAGE

	Male	Female	Total
16-24	79.3	95.7	86.5
25-44	92.1	96.2	93.9
45-64	87.9	90.0	88.3
65+	100.0	100.0	100.0
TOTAL	89.0	95.1	91.2

Table 16
August 12, 1988

SEAT BELT SURVEY

AREA: **Labrador City**

SHOWING USE OF SHOULDER HARNESS

	Male	Female	Total
16-24	3	5	8
25-44	104	52	156
45-64	12	5	17
65+	0	0	0
TOTAL	119	62	181

NOT USING SHOULDER HARNESS

	Male	Female	Total
16-24	3	2	5
25-44	61	28	89
45-64	10	0	10
65+	0	0	0
TOTAL	74	30	104

WEARING PERCENTAGE

	Male	Female	Total
16-24	50.0	71.4	61.5
25-44	63.0	65.0	63.7
45-64	54.5	100.0	63.0
65+	-	-	-
TOTAL	61.7	67.4	63.5

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